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WAECO
by Dometic GROUP

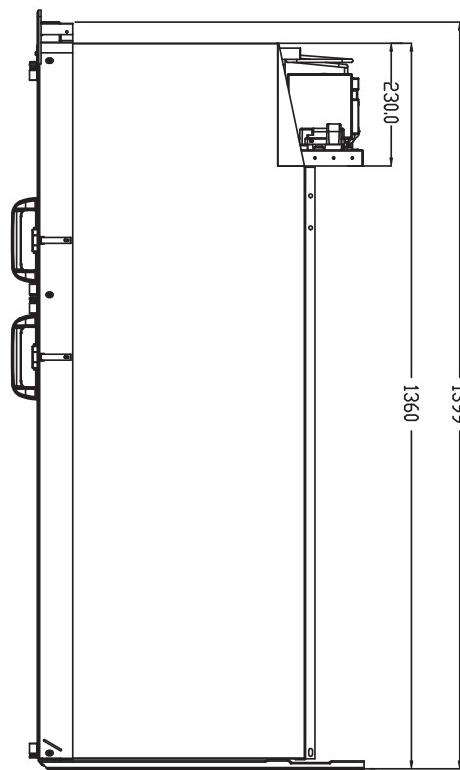
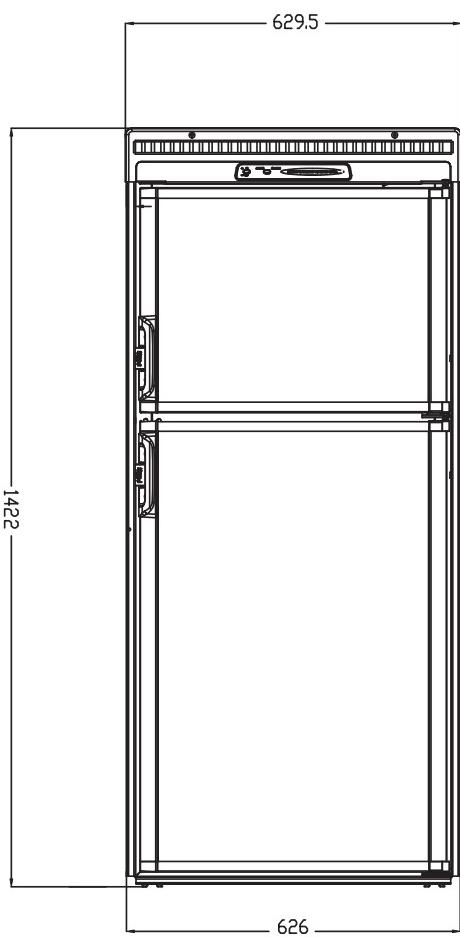
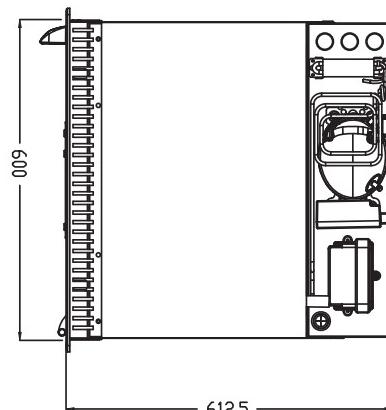


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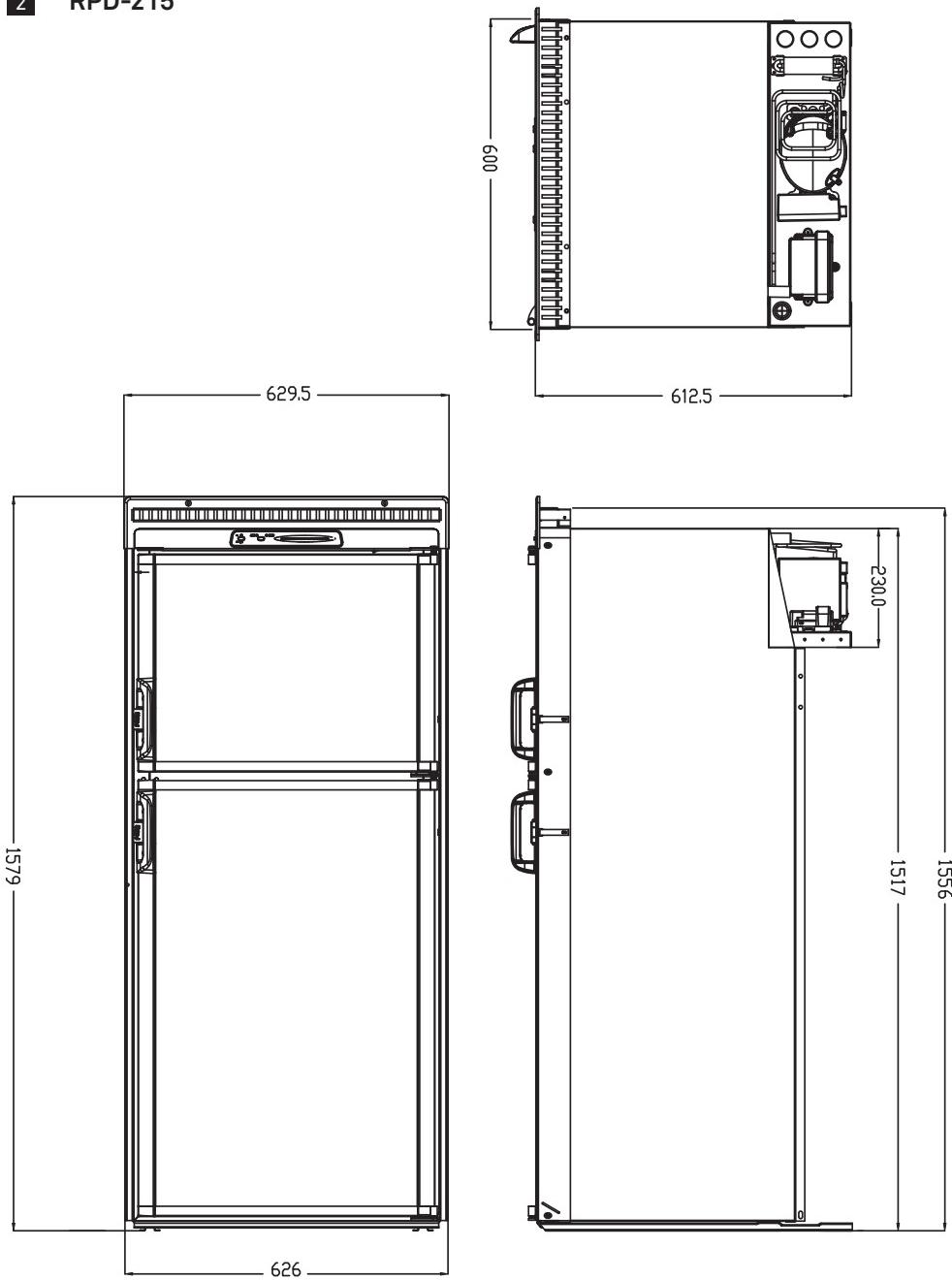
RPD-175, RPD-215

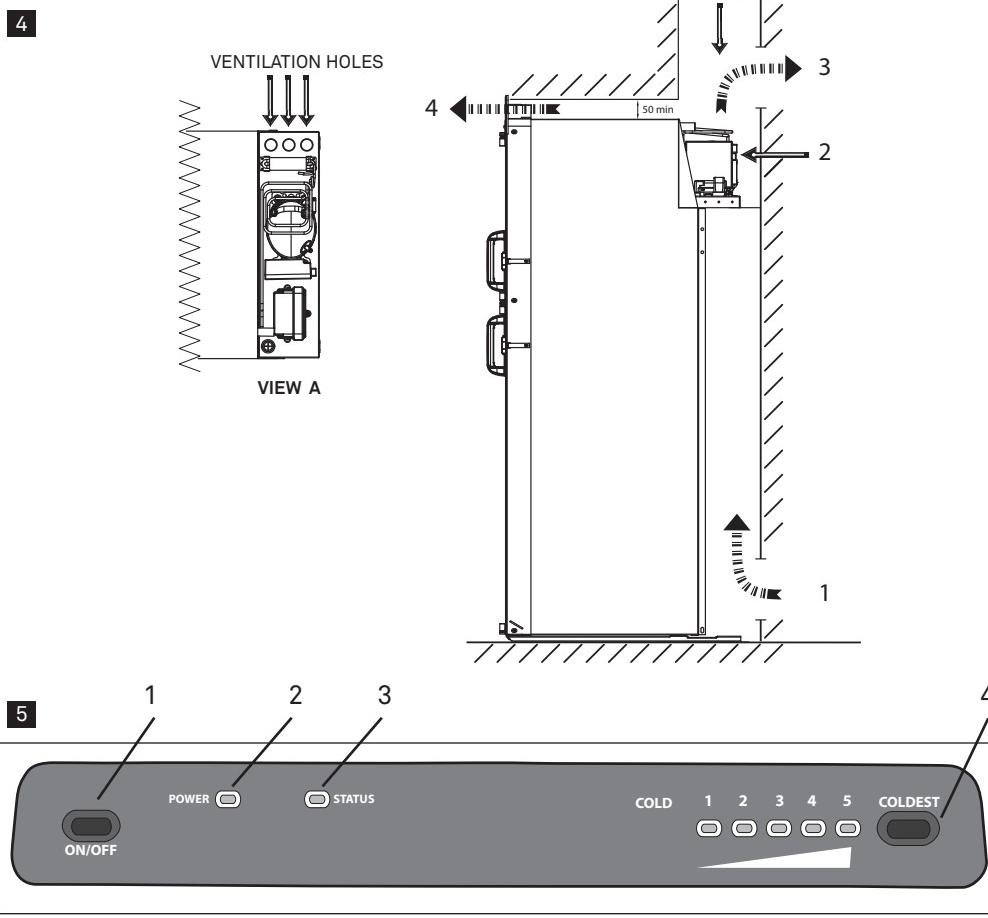
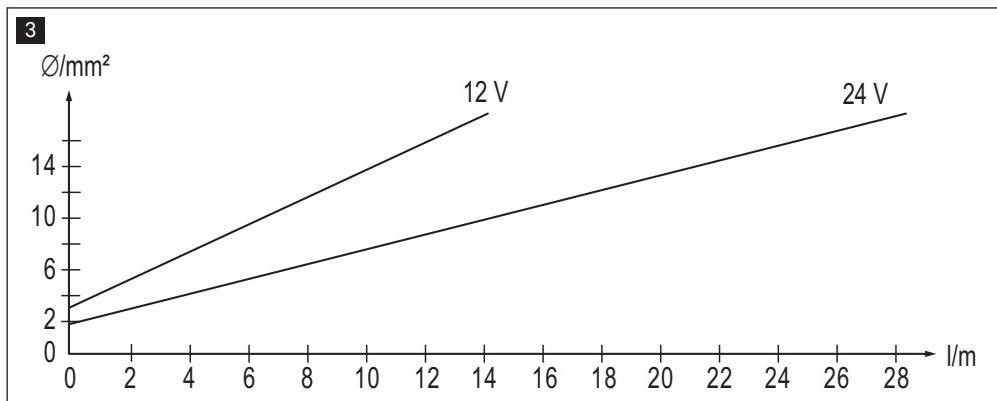
Refrigerator
Instruction manual

1 RPD-175



2 RPD-215





Please read this manual carefully before starting the machine. Keep it in a safe place for future reference. If the device is resold, this operating manual must be handed over to the purchaser along with the device.

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1 Notes on using the instruction manual

The following symbols are used in this instruction manual:



Caution!

Safety instruction: failure to observe this instruction can cause injury or damage the device.



Caution!

Safety instruction relating to a danger from an electrical current or voltage. Failure to observe this instruction can damage the device and impair its function and cause injury.



Note

Supplementary information for operating the device.

- Action: this symbol indicates that action is required on your part. The required action is described step-by-step.
- ✓ This symbol indicates the result of an action.

4 1, page 4: this refers to an element in an illustration. In this case, item 1 in figure **4** on page 4.

Please observe the following safety instructions.

2 Safety instructions

Caution! Dometic International will not be held liable for claims for damage resulting from the following:

- Damage to the device resulting from mechanical influences and overvoltage
- Alterations to the device made without the explicit permission of Dometic International
- Usage for purposes other than those described in the installation manual

2.1 General safety



- Have a trained technician make installations in wet rooms.
- Do not operate the device if it is visibly damaged.
- This device may only be repaired by qualified personnel. Inadequate repairs can lead to considerable hazards. Should your device need to be repaired, please contact WAECO customer services.
- Do not open the refrigerant circuit under any circumstances.
- Place the device in a dry location where it is protected against splashing water.
- Do not place the device near naked flames or other heat sources (heaters, direct sunlight, gas ovens etc.).
- Ensure that the ventilation slots are not covered.
- The device is not suitable for storing caustic materials or materials containing solvents.
- Before starting up the device for the first time, check whether the operating voltage and the battery voltage correspond (see type plate).

Danger of fatal injuries!



When using the device on boats: if the device is powered by the mains, ensure that the power supply has a ground fault interrupter circuit.

- Food may only be stored in its original packaging or in suitable containers.
- If the cable is damaged, it must be replaced to prevent possible electrical hazards. Only replace a damaged power cable with a power cable of the same type and specifications.

2.2 Operating the device safely



- **Electronic devices are not toys.**

Always keep and use the device out of the reach of children.

- If you connect the device to a battery, make sure that food does not come into contact with the battery acid.
- Protect the device against rain and moisture.
- Disconnect the cooling device and other power consuming devices from the battery before connecting the battery to a quick charging device.

Overvoltage can damage the electronics of the device.



- **Danger of fatal injuries!**

Do not touch exposed cables with your bare hands.

This especially applies when operating the device with an AC mains power supply.

3 Scope of delivery

Quantity	Description
1	Refrigerator
1	Instruction manual
1	LH hinge conversion kit (with instruction)
2	Airing position card

4 Intended use



The refrigerator is suitable for cooling and freezing foodstuffs.

The device is also suitable for use on boats.

If you wish to cool medicines, please check if the cooling capacity of the device is suitable for the medicine in question.

5 Technical description

The refrigerator is suitable for use with a 12 V or 24 V DC voltage and can therefore also be used for mobile homes, caravans or on boats.

When used on boats the refrigerator can be subjected to a constant inclination of 30°.

It can cool products to +10 °C to +2 °C and keep them cold. In the freezer compartment, it can cool products to -18 °C and freeze them.

All materials used in the refrigerator are compatible for use with foodstuffs. The refrigerant circuit is hermetically sealed and CFC-free.

You can use the variable thermostat to set the desired temperature.

6 Installing and connecting the refrigerator

Safety instructions for installation on boats

Please note the following instructions for installation on boats:



- The device can be tilted sideways up to 30°. When setting up the refrigerator, note that it must be fastened to take account of this. If you have any questions regarding installation consult your specialist dealer.
- Install the refrigerator so that the warm air produced can easily flow away either upwards or to the front (at top), fig. 4 page 4.
- If appliance is powered by mains, ensure that the power supply has a residual current circuit breaker.
- Observe all the other installation instructions in this section.

6.1 Securing the refrigerator



Caution!

- Fasten the device as described in the operating manual to prevent hazards.

- Keep objects clear of openings in the housing or mounting structure (such as ventilation slots).
- **The refrigerator is designed for installation in a fitted niche.** Once it is installed, only the front of the appliance may be accessible.

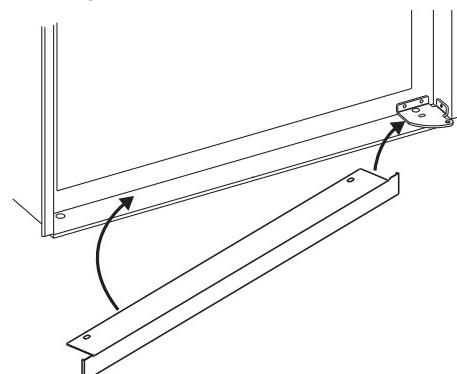
Set up the fridge in a dry, sheltered place. Avoid placing it near heat sources such as radiators, gas ovens, hot water pipes etc. Do not let it stand in direct, strong sunlight.

After the refrigerator is put in place, it is to be secured in the enclosure with screws. (These screws are not included).

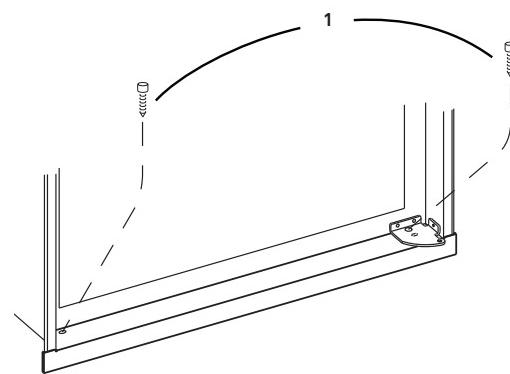
The six screws have to be installed in the following order.

- 1.a) The refrigerator is provided with a lower front strip (shipped as a loose part) which is to be attached after the refrigerator is set into the cutout opening. Install the lower front strip by sliding it under the bottom hinge plate and swing it into place.

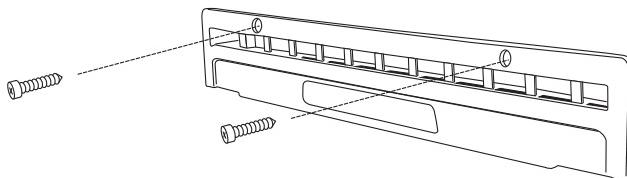
(The hinge plate can be on the right or left side depending on the door swing.)



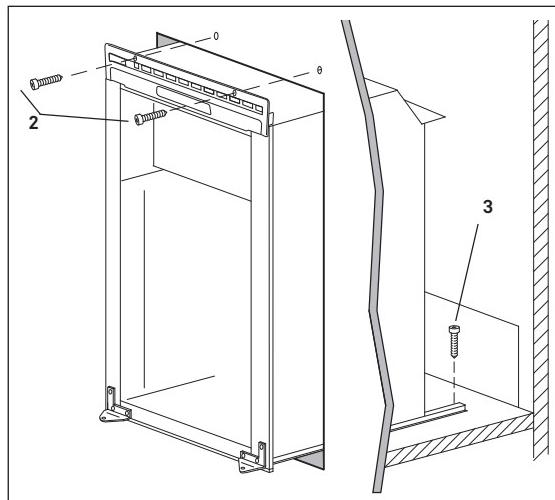
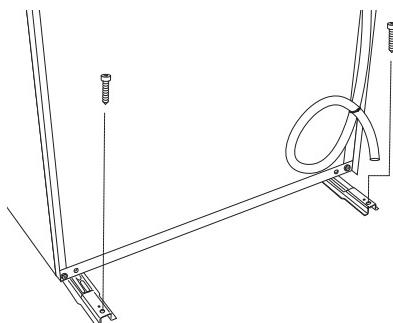
- b) Secure the refrigerator and the lower front strip with two screws: One screw through the hinge and on the opposite side, one screw through the lower front strip.



2. Install two screws in the top frame.



3. Install two screws in the rear base.



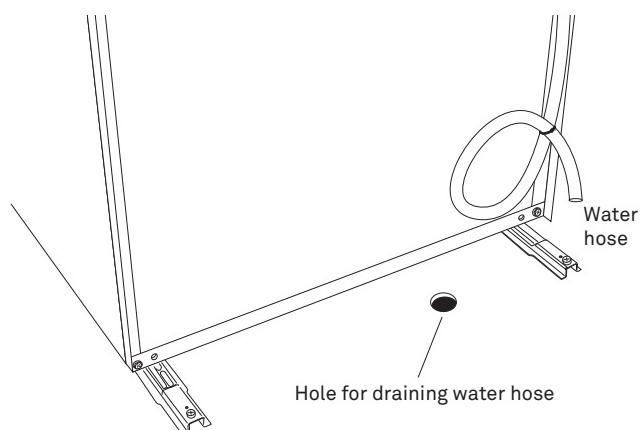
6.2 Drain water hose

The condensation which forms during normal operation of the refrigerator needs to be drained to the outside.

A hole must be drilled through flooring.

The installer has to make sure that the hose does not kink when run through the floor. Seal around the hose that goes through the drilled hole.

If a longer hose than supplied is required to get the water to drain outside of the vehicle, the installer will have to supply the extra length of hose.



6.3 Ventilation

The refrigerator must be installed so that the warm air produced can easily flow away. Therefore make sure there is adequate ventilation (fig 4, page 4).

No. in fig 4 page 4	Explanation	Action
1	Cold intake air	Fit inlet vent to exterior wall (below "compressor shelf")
2	Condenser & Compressor ("compressor shelf") – produce heat	–
3	Hot waste air – external vent	Fit outlet vent to exterior wall (above "compressor shelf")
4	Hot waste air – internal vent	–

6.4 Connecting the refrigerator

Connecting to a battery

The refrigerator can be operated with a 12 V to 24 V DC voltage supply.



To avoid voltage loss and therefore a drop in performance, the cable should be kept as short as possible and should not be interrupted if this is possible. For this reason avoid additional switches, plugs or power strips.

- Determine the required cross section of the cable in relation to the cable length according to 3 page 4.

Key for 3 page 4

Co-ordinate axis	Meaning	Unit
	Cable length	mm
Ø	Cable cross-section	mm ²

**Caution!**

Make sure that the polarity is correct.

- Before starting up the device for the first time, check whether the operating voltage and the battery voltage correspond (see type plate).

► Connect the refrigerator

- As directly as possible to the pole of the battery or
- To a plug socket which is fused with at least 15 A (at 12 V) or 7.5 A (at 24 V).

**Caution!**

Disconnect the cooling device and other power consuming devices from the battery before connecting the battery to a quick charging device. Overvoltage can damage the electronics of the device.

For safety reasons the refrigerator is equipped with an electronic system to prevent the polarity being reversed. This protects the refrigerator against reversed polarity when connecting to a battery and against short circuiting. To protect the battery, the refrigerator switches off automatically if the voltage is insufficient (see table below).

	12 V	24 V
Switch-off voltage	10.4 V	22.8 V
Switch-on voltage	11.7 V	24.2 V

7 Using the refrigerator



Before starting your new refrigerator for the first time, you should clean it inside and outside with a damp cloth for hygienic reasons (please also refer to 8 "Cleaning and maintenance").

7.1 Energy saving tips

- Choose a well ventilated installation location which is protected against direct sunlight.
- Allow hot food to cool down first before placing it in the device.
- Do not open the refrigerator more often than necessary.
- Do not leave the door open for longer than necessary.
- Defrost your refrigerator as soon as a layer of ice forms.
- Avoid unnecessarily low temperatures.
- Clean the condenser of dust and impurities at regular intervals.

7.2 Using the refrigerator

The refrigerator conserves fresh foodstuffs. The freezer compartment conserves frozen foodstuffs and freezes fresh foodstuffs.



Ensure that food or liquids in glass containers are not excessively refrigerated.

Liquids expand when they freeze and can thus destroy the glass containers.

- Switch the refrigerator on by pressing ON/OFF button (5 1, page 4).



After switching on, the refrigerator requires approx. 180 seconds until the compressor starts up.



Ensure that the objects placed in the refrigerator are suitable for cooling to the selected temperature.

Power and Status LED's

Power LED

The Power LED (5 2, page 4) indicates the following conditions:

POWER LED	Condition
Not lit	Refrigerator is turned off, or there is no power supply
Green	Refrigerator is turned on, and the compressor is running
Red	Refrigerator is turned on, and the compressor has cycled off

Status LED

The Status LED (5 3, page 4) indicates the following conditions:

STATUS LED	Condition
Not lit	Refrigerator is running normally
Flashing Red	There is a problem. See Troubleshooting Guide

Setting the temperature

You can set the temperature in levels using the button (5 4, page 4) . The integrated thermostat regulates the temperature as shown in the following table.

Level	Meaning
1	Minimum cooling capacity (warmest)
5	Maximum cooling capacity (coldest)

The cooling capacity can be influenced by:

- The ambient temperature
- The amount of food to be conserved
- The frequency with which the door is opened.

Conserving foodstuffs

You can conserve foodstuffs in the refrigerator compartment. The time for which the food can be conserved in this way is usually stated on the package.

Caution!



Do not conserve **warm** food in the refrigerator compartment.

Do not place glass containers with liquid in the freezer compartment.



Food which can easily absorb tastes and odours and liquids and products with a high alcohol content should be conserved in airtight containers.

- You can keep frozen food in the freezer compartment for several months as temperatures of down to -18°C are achieved in this area.
- Observe the following when using the device:
- Do not re-freeze products which are defrosting or have been defrosted, consume them as soon as possible.
 - Each individual drawer and shelf can bear an evenly divided load of max. 20 kg.
 - Wrap food in aluminium foil or cling film and shut-in in a suitable box with a lid. This ensures that aromas, the shape and the freshness are better conserved.

Making ice cubes

Caution!



Do not eat ice cubes or ice cream immediately after removing it from the freezer compartment as this can cause cold burns.

Make ice cubes in the freezer compartment in the following manner:

- Fill the ice cube trays up to three quarters full with water.
- Place the ice cube trays in the freezer compartment.



Do not remove containers which have frozen in place to the base of the compartment with sharp or pointed objects.

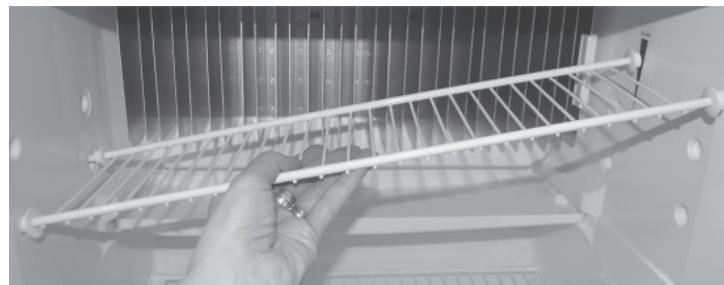
This can damage the refrigerator.

7.3 Removing and replacing the shelves

1. Remove the shelf locks by inserting the tip of a flat bladed screwdriver into the slot of the locks. Turn the screwdriver counterclockwise and then remove the shelf locks from the wire shelf.



2. Tilt the shelf to one side at an angle while pulling forward.



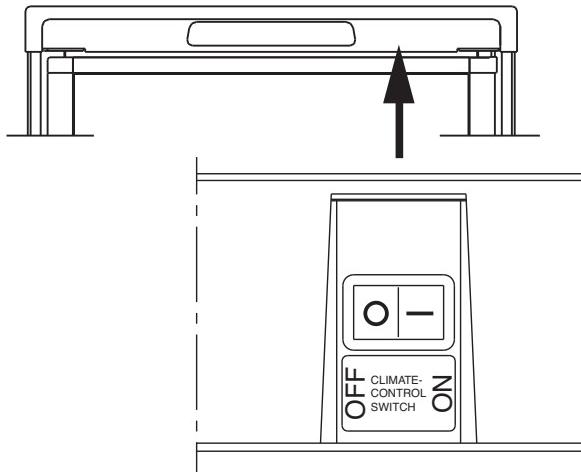
3. Reposition the shelf in the desired location. Insert the ends of the wire shelf on the left-hand side and slide the shelf into the holes on the right-hand side.
4. Slide the plastic plugs into the holes of the wall.
5. Snap the shelf locks onto the wire shelf.



7.4 Heating cable

During the summer months of high temperatures and humidity, the metal frame between the freezer and fresh food compartments may have water droplets forming. This refrigerator comes standard with a 12V DC heating cable that will evaporate the water droplets when they form.

To have the heating cable on, you position the switch located beneath the control panel to **I**, see Fig. The heating cable can be left on continuously or only used when temperatures require it.



The heating cable will draw 12V DC power continuously when in the **ON (I)** position. It should be turned off when a charging source is not available.

7.5 Defrosting the refrigerator

Humidity can form frost in the interior of the refrigerator or on the vaporiser. This reduces the cooling capacity. Defrost the device in good time to avoid this.



Caution!

Never use hard or pointed tools to remove ice or to loosen objects which have frozen in place.

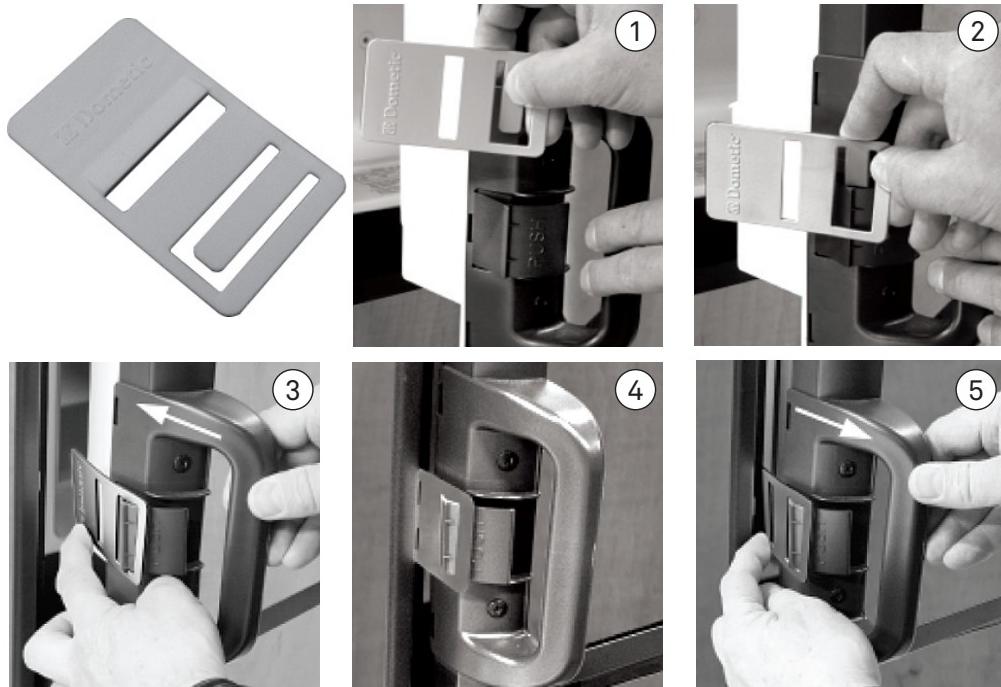
To defrost the refrigerator, proceed as follows:

- Take out the contents of the refrigerator.
- Place them in another cooling device to keep them cool, if necessary.
- Set the ON/OFF button (5 1, page 4) to 'OFF', indicated by Power LED (5 2, page 4) not lit.
- Leave the door open.
- Wipe off the defrosted water.

7.6 Switching off and storing the refrigerator

If you do not intend to use the refrigerator for a long time, proceed as follows:

- Set the ON/OFF button (5 1, page 4) to 'OFF', indicated by POWER LED (5 2, page 4) not lit.
- Disconnect the DC power cable from the battery
- Clean the refrigerator (see 8 "Cleaning and maintenance").
- Leave the door slightly open. This prevents odours from building up.
- Use the **Airing Position card** to keep the door ajar if the refrigerator will not be in use for an extended time.



7.7 Replacing the bulb

To replace the bulb, follow these steps:

1. Remove the lamp cover. Push the lamp cover backwards.
2. Replace the old bulb with an appliance bulb of the same wattage (12V, max 10W)
3. Replace the cover.

Be sure to disconnect power supply before you change bulb.

7.8 Changing the door hinge

The door can be reversed to open the opposite way with the LH hinge conversion kit supplied. A separate instruction sheet is included with this kit.

8 Cleaning and maintenance



Caution!

Do not use abrasive cleaning agents or hard objects during cleaning as these can damage the refrigerator.



Caution!

Never use hard or pointed tools to remove ice or to loosen objects which have frozen in place.

- As soon as the refrigerator becomes dirty, clean it with a damp cloth.
- Make sure that no water drips into the sealing. This can damage the electronics.
- Wipe the refrigerator dry with a cloth after cleaning.

9 Guarantee

Our general guarantee conditions apply. If the product is defective, please send it back to the Dometic branch in your country (addresses on the back of the instruction manual) or to your specialist dealer. For repair and guarantee processing, the following documents must be sent along with the device:

- A copy of the receipt with purchasing date
- A reason for the claim or description of the fault.

10 Disposal

- Place the packaging material in the appropriate recycling waste bins wherever possible.



If you wish to finally dispose of the device, ask your local recycling centre or specialist dealer for details about how to do this in accordance with the applicable disposal regulations.

Please remove the door before you dispose your refrigerator.

11 Troubleshooting

General

Fault	Possible cause	Suggested remedy
Device does not function, Power LED does not glow	There is no voltage present in the 12/24 V supply	Check source to ensure power from battery is switched on
	The integrated mains adapter is defective	This can only be repaired by an authorised repair centre
The device does not cool (power is present, "POWER" LED is lit)	Defective component	This can only be repaired by an authorised repair centre
The device does not cool, power is present, "STATUS" LED flashes	Battery voltage is too low	Test the battery and charge it as needed
	Cable X-section too low	Upgrade the cable (3, page 4)
	The device has switched off due to an internal fault	This can only be repaired by an authorised repair centre
Trouble starting	Ambient temperature too high	–
	Insufficient ventilation	Install sufficient ventilation
	Condenser is dirty	Clean
	Fan defective	Replace

Interior temperature too cold on control setting “1”

Fault	Possible cause	Remedy
Compressor runs constantly	Thermostat sensor has no contact to the evaporator	Secure the sensor
	Short circuit in the thermostat line. Thermostat defective	Change the thermostat
Compressor runs for along time	Large quantities have been frozen in the freezer compartment	–

Cooling capacity drops, interior temperature rises

Fault	Possible cause	Remedy
Compressor runs for a long time/ continuously	Evaporator iced over	Defrost the evaporator
	Cooling area insulation is insufficient (moist/wet)	Adjust/replace the door seal
	Ambient temperature too high	–
	Insufficient ventilation	Rectify
	Condenser is dirty	Clean the condenser
	Fan defective (if installed)	Replace the fan
Compressor does not run often	Battery capacity exhausted	Charge the battery

Unusual noises

Fault	Possible cause	Remedy
Loud humming	A component of the refrigerant circuit cannot move freely (lies against the wall)	Bend the component carefully
	Foreign body jammed between the cooling device and the wall	Remove the foreign body
	Fan noise (if installed)	–

12 Technical data

	RPD-175	RPD-215
Capacity (total)	175 litres	213.5 litres
Freezer proportion	43 litres	43 litres
Connection voltage	12 V DC or 24 V DC	
Rated Current	7.0A at 12V DC 3.5A at 24V DC	7.5A at 12V DC 3.5A at 24V DC
Average power consumption	65W	70W
Cooling temperature range – refrigerator	+10 °C to +2 °C	
Cooling temperature range – freezer	0 °C to -18 °C	
Refrigerant R134a	88g	97g
Constant inclination	max. 30°	
Dimensions	See 1, page 2	See 2, page 3
Weight	approx. 47 kg	approx. 50 kg

Versions, technical modifications and delivery options reserved.

This device is CFC-free.

The coolant circuit contains R134a.



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